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curve with a macroscopic shape of said at least one surface within said effective area, said effective area and said outer area being configured such that a light beam passing through said effective area forms a beam spot on a predetermined surface, the light beam passing through said outer area being diffused on the predetermined surface.

8. The objective lens according to claim 7, said diffraction lens structure comprising a plurality of concentric annular zones formed on said at least one surface.

9. The objective lens according to claim 8, said outer area comprising a continuous surface without a diffraction lens structure.

10. The objective lens according to claim 7, said outer area being configured such that a predetermined gap is provided between a spherical aberration of the light beam passing through said effective area and a spherical aberration of a light beam passing through said outer area.

11. The objective lens according to claim 10, wherein an absolute value of said predetermined gap is at least equal to 10 micrometers.

12. The objective lens according to claim 10, wherein an absolute value of said predetermined gap is approximately 200 micrometers.---